

Application #09/946,112
Amendment dated May 6, 2005

PATENT

Amendments to the claims:

- 1 1. (original) A method for reducing transmissions of content between a gateway
2 and one or more clients, the method comprising:
3 determining a plurality of characteristics of content, including at least one static
4 characteristic of content, and;
5 sharing the determination of the plurality of characteristics of content with the
6 gateway and the one or more clients, the sharing to enable the gateway to filter
7 content for transmission to the one or more clients based on the plurality of
8 characteristics thereby reducing an amount of content for transmission
9 between the gateway and the one or more clients.
- 1 2. (original) The method of claim 1 further comprising:
2 updating the gateway with a later determination of the plurality of characteristics of
3 content, the updating including adding data to a container associated with the
4 gateway.
- 1 3. (original) The method of claim 2 wherein the container is a database.
- 1 4. (original) The method of claim 1 wherein the determining is done one of:
2 prior to manufacture of one or more components for the client, the components
3 including one or more of a smart card, a removable device for a computer
4 system, and a wireless transmission component for the client; and
5 after manufacture of the one or more components for the client, the client or the
6 gateway performing the determining according to decisions one or both of by
7 the client and the gateway.
- 1 5. (original) The method of claim 1 wherein the determining is done by one or
2 more of a user of the client and an issuer of the client.
- 1 6. (original) The method of claim 5 wherein the issuer identifies static content
2 via a communication with the gateway.

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1 7. (original) The method of claim 5 wherein the user identifies static content via
2 a setup program.

1 8. (original) The method of claim 1 wherein the determining is done dynamically
2 by the gateway, the gateway running software adapted to determine whether content is
3 cached in the one or more clients.

1 9. (currently amended) The method of claim 4 wherein the decisions include ~~one~~
2 two or more of:
3 a decision that an identified content type will be cached in the client and require
4 updating according to a predetermined frequency;
5 a decision regarding a number of bytes for each transmission;
6 a decision regarding an amount of time for a transmission;
7 a contractual agreement regarding reduced transmissions;
8 a decision made via a setup program for governing transmissions; and
9 a decision with respect to a static characteristic of a linked set of files for a web site,
10 the linked set of files having a hierarchy, wherein the linked set of files is
11 shared with the gateway with the static characteristic determining the filtering
12 of the content.

1 10. (original) The method of claim 1 further comprising:
2 recording one or more unique identifiers associated with the determination of the
3 plurality of characteristics of content, the unique identifier identifying content
4 chosen for caching according to at least one characteristic of the plurality of
5 characteristics of content;
6 comparing the unique identifier to a list of unique identifiers recorded by the gateway;
7 and
8 if the list holds the unique identifier, transmitting to the client the content as filtered
9 by removing content identified by the unique identifiers.

1 11. (original) The method of claim 1 wherein the determining one or more
2 characteristics provides a cached set of files for a smart card.

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1 12. (currently amended) A computer readable storage medium comprising
2 computer instructions for:
3 reading a container, the container identifying content not to be distributed according
4 to at least one characteristic of the content, including a determination of
5 usefulness of the content to a user;
6 comparing the container with received content for distribution to a client; and
7 if the container identifies the received content as including one or more subsets of
8 content identified as not to be distributed, filtering the subsets from the
9 content.

1 13. (original) The computer readable storage medium of claim 12 wherein the
2 container is a one of a database and a file list.

1 14. (currently amended) A method of managing content in a gateway, the method
2 comprising:
3 reading a container, the container identifying content not to be distributed according
4 to at least one characteristic of the content independent of a static and/or
5 dynamic characteristic of the content;
6 comparing the container with received content for distribution to a client; and
7 if the container identifies the received content as including one or more subsets of
8 content identified as not to be distributed, filtering the subsets from the
9 content.

1 15. (original) The method of claim 14, further comprising:
2 if the subsets from the content are filtered, inserting one or more unique identifiers
3 into the content.

1 16. (original) The method of claim 15 wherein the gateway transmits the filtered
2 content to the client via a communication channel in response to a request for content for
3 loading a linked set of files defining a web page, the linked set of files including content
4 having a static characteristic and dynamic content, wherein the content identified as having at
5 least one static characteristic is associated with the one or more unique identifiers.

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1 17. (original) The method of claim 14 wherein the gateway has a contractual
2 relationship with the client.

1 18. (original) The method of claim 14 wherein the characteristics of the content
2 include a static characteristic of the content.

1 19. (original) The method of claim 14 wherein the characteristics of the content
2 include a plurality of characteristics according to one or more of a determination as to a level
3 of inactivity and a plurality of predetermined parameters for adjusting the content.

1 20. (original) The method of claim 14 wherein the content is stored on a machine
2 readable medium coupled to a first digital machine and wherein the first digital machine
3 transmits content via a communication channel to a second digital machine, wherein:
4 the characteristic of the content associated with the container is a static characteristic;
5 the comparing includes determining whether the container identifies content for
6 distribution to second digital machine that is held in a cache of the second
7 digital machine; and
8 if the second digital machine cache holds content identified in the container, the
9 content is stored in a readable/writeable memory locally coupled to the second
10 digital machine

1 21. (original) The method of claim 20 wherein the second digital machine is one
2 of a personal computer, a portable computing device, and a mobile telephone.

1 22. (original) The method of claim 20 wherein the second digital machine is
2 configured to execute one or more of telephony, appointment planning, and personal
3 computing.

1 23. (currently amended) A system comprising:
2 a processor;
3 a first memory coupled to the processor;
4 a first instruction set operable with the processor to compare a container in the
5 memory to determine whether content for transmission matches at least a

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6 subset stored in a second memory within a receiving device, wherein the
7 subset is identified as ~~one or more of~~ static content previously cached in the
8 receiving device and content previously identified as not to be transmitted to
9 the receiving device; and
10 a second instruction set operable with the processor to filter the content for
11 transmission by removing the subsets.

1 24. (original) The system of claim 23 wherein the system is a gateway configured
2 to transmit filtered content to the receiving device.

1 25. (original) The system of claim 23 wherein the second instruction set further
2 inserts a plurality of unique identifiers into the filtered content, the plurality of unique
3 identifiers marking the filtered content for the receiving device to insert cached content.

1 26. (original) The system of claim 23 further comprising a transmitter responsive
2 to the determination of the first and second instruction sets.

1 27. (original) The system of claim 23 wherein the receiving device is one of a
2 smart card and a memory module coupled to one of a mobile telephone, a personal digital
3 assistant, a personal computer, and a mobile computing device.

1 28. (original) The system of claim 23 wherein the memory includes:
2 storage for the content with the static characteristic; and
3 a database for holding a list of unique identifiers.

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- 1 29. (original) The system of claim 25 wherein:
2 the receiving device receives the plurality of unique identifiers via a communication
3 channel in response to a request for content for loading a linked set of files
4 defining a web page, the linked set of files including content having a static
5 characteristic and dynamic content, wherein the content identified as having at
6 least one static characteristic is associated with the plurality of unique identifiers.